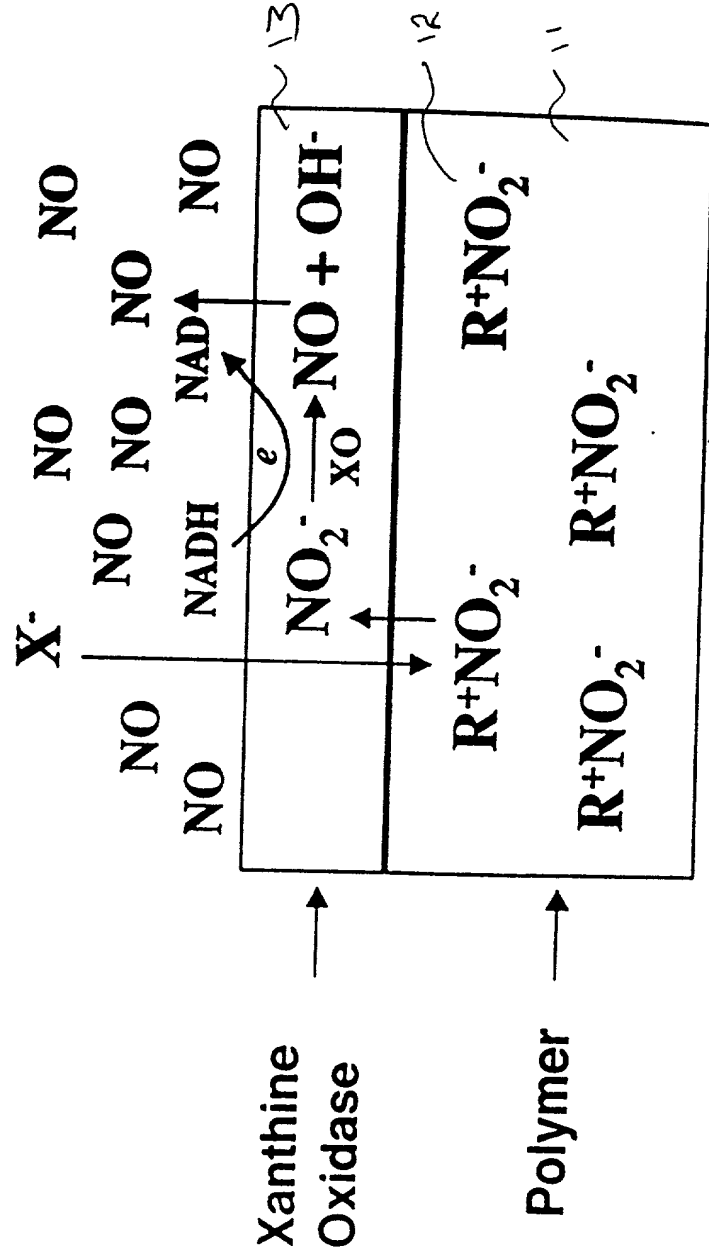


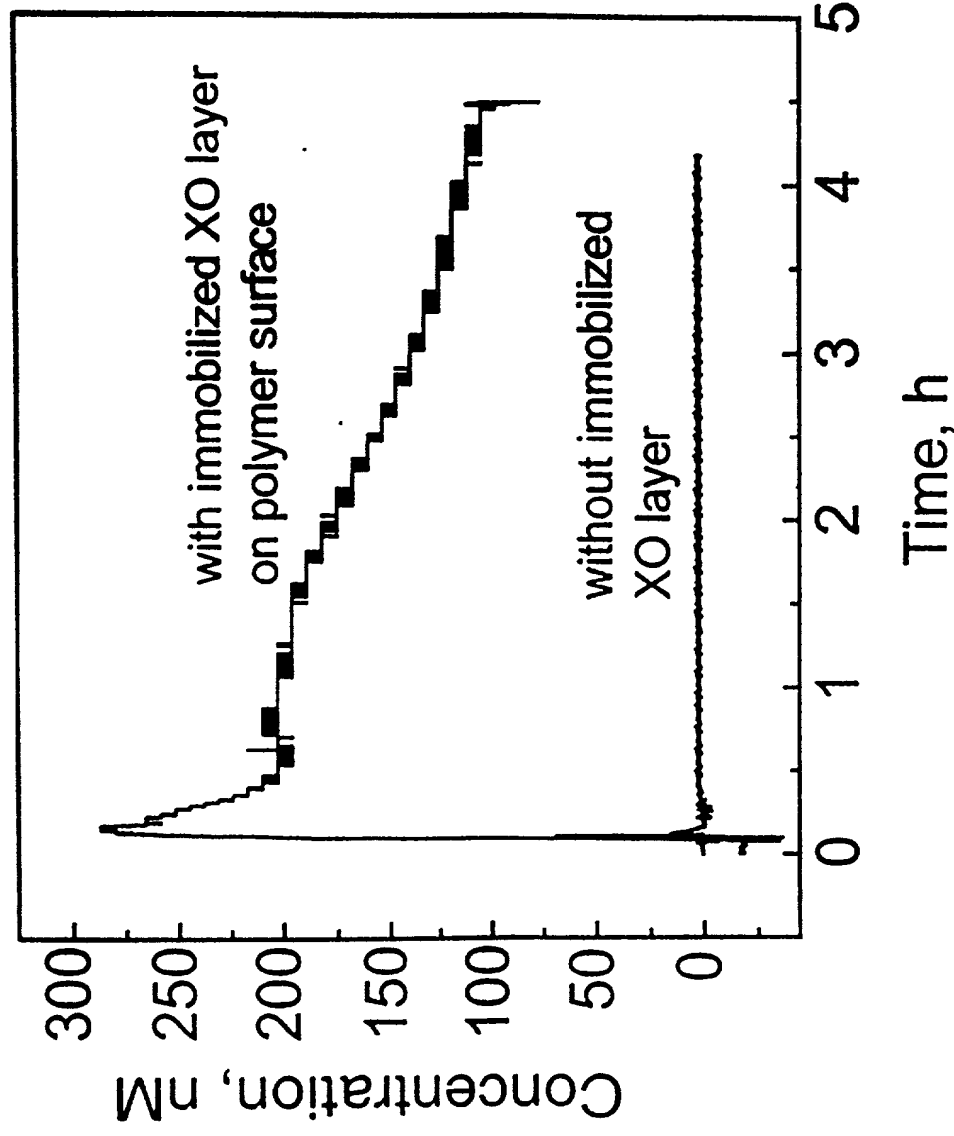
Schematic of Surface NO Generation via Nitrite Reductase Activity and Polymer Loaded with Nitrite Salt



R = Tridodecylmethylammonium

FIG.1

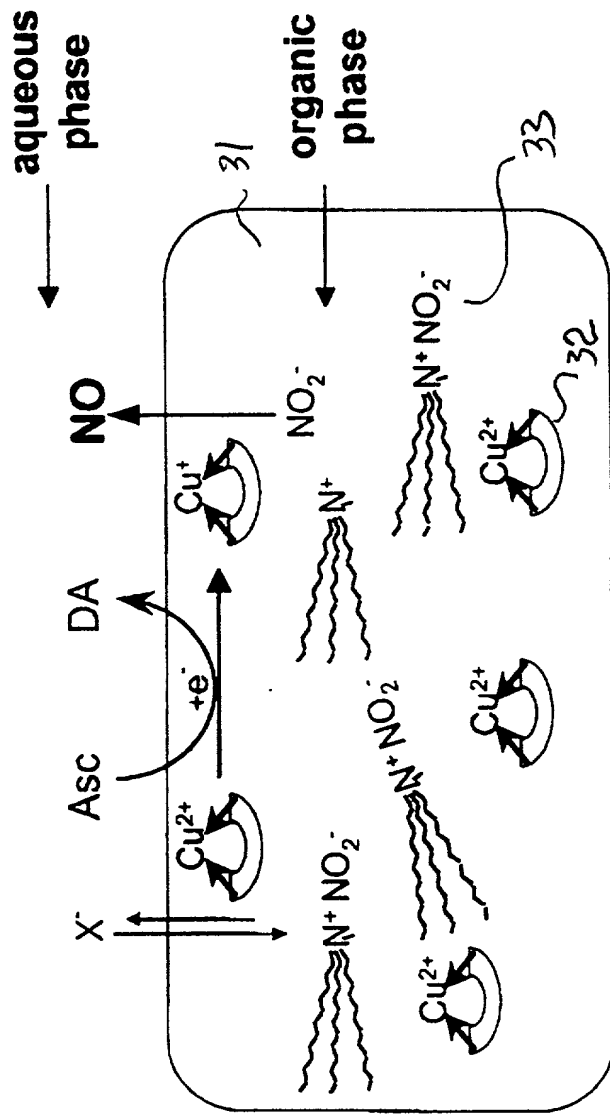
NO Releasing Profile from Nitrite Ion-Pair Doped Polymer Films in Sheep Blood



*distance between polymer surface and sensor is 10 μm

FIG.2

Electron Transfer from Aqueous to Organic Phase



Asc: Ascorbate, DA: Dehydroascorbate, X^- : anion

Cu^{2+} : lipophilic copper complex

FIG. 3

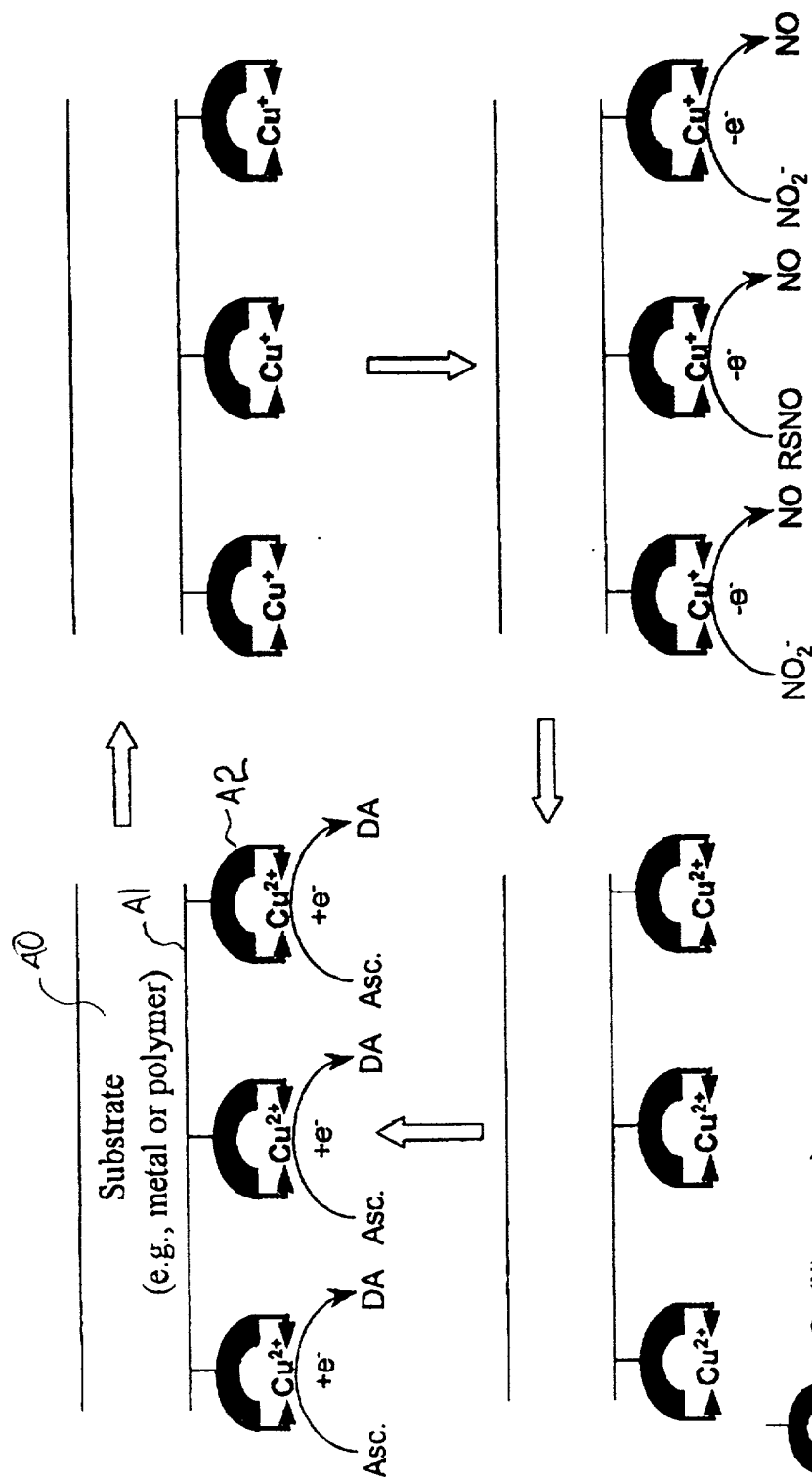
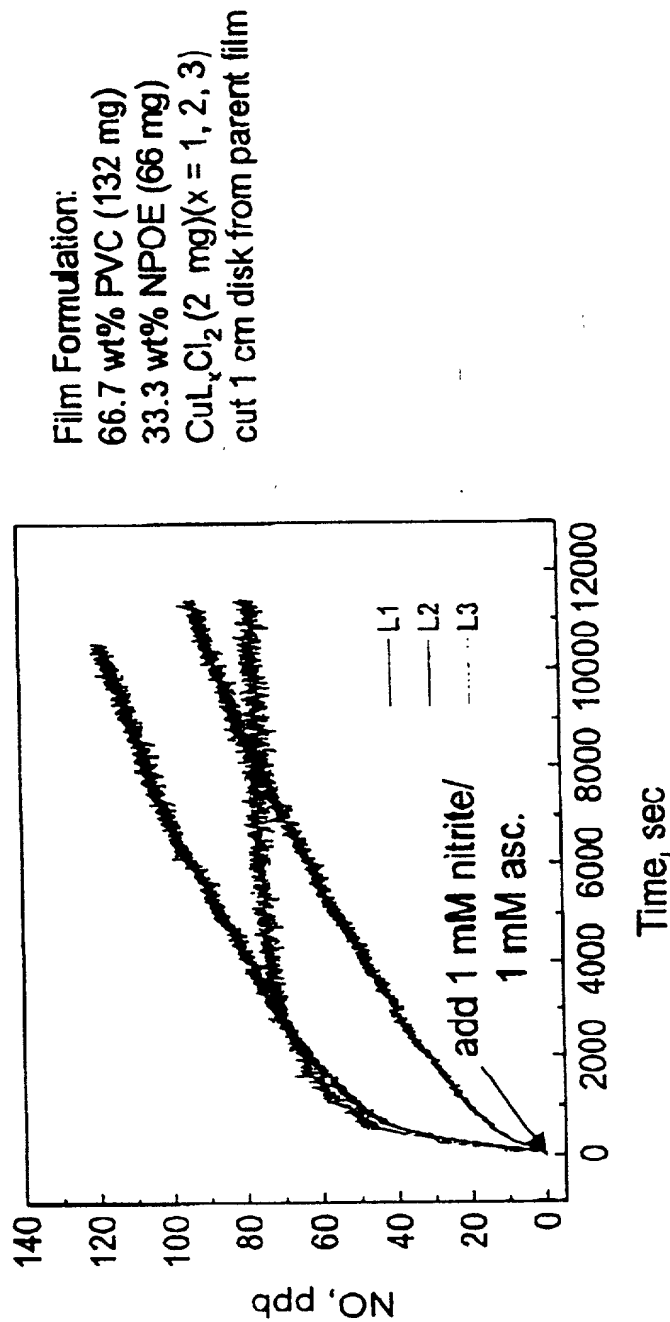


FIG. A

NO Generation from PVC Film upon Addition of 1 mM Nitrite/1 mM Ascorbate



Background solution : deoxygenated PBS solution, pH 7.4

Fig 5

Cu(II)-Complexes

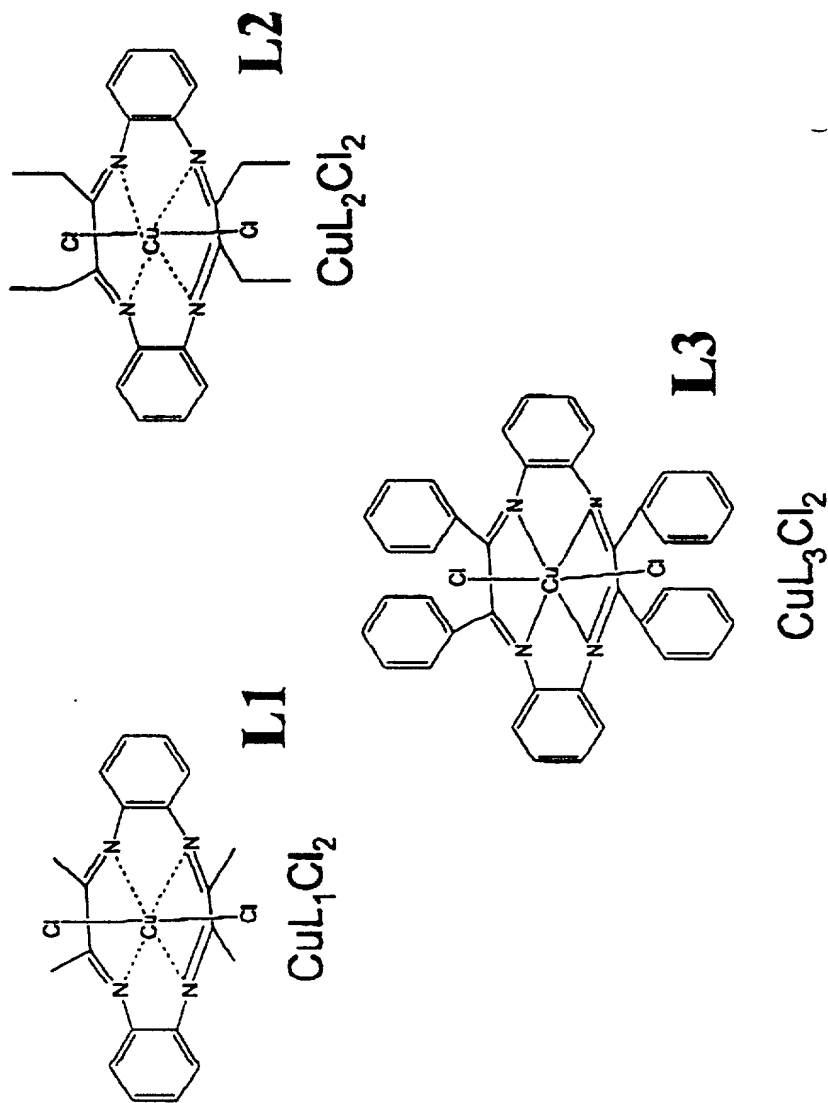
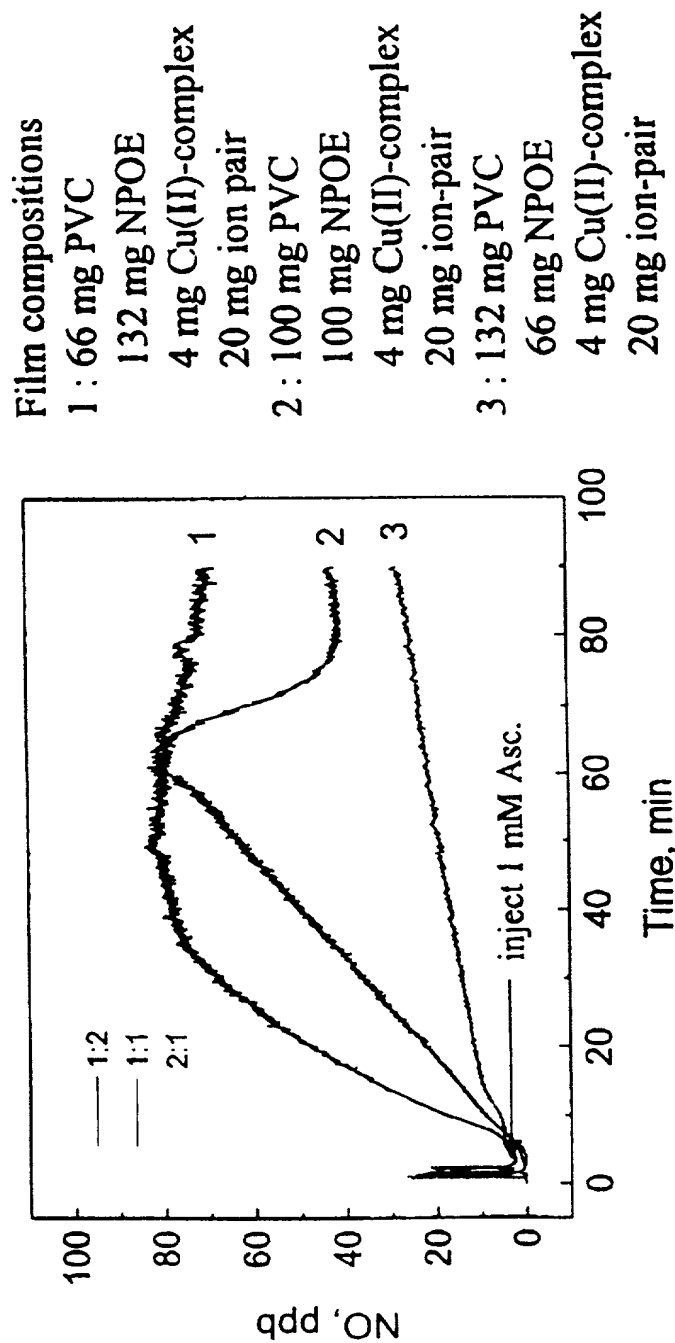


Fig. 9

NO Generation from Nitrite Ion Pair/Cu(II)-complex(L2) Doped PVC Film upon Addition of 1 mM Ascorbate



Background solution : deoxygenated PBS, pH 7.4
Each film contains 1.0 mg of TDMA⁺NO₂⁻

Fig. 7